KHANAK, E.

Providing the Hungarian Cotton Industry with Spare Parts. Leka Promishlenost (Light Industry), #12:35:Dec. 1955

KHANALIYEV, N.M.

State of the excretory disintoxitation processes and the degree of hemoconcentration in patients with burns treated with novocaine-furacillin-pyoctanin solution. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no.3:95-100 '63. (MIRA 16:6) (Burns and scalds) (Pharmacology)

KHANAMIROV, A.R.

Tissue therapy of hearing disorders. Vest. otorinolar., Moskva 14 no. 3:37-39 May-June 1952. (CIML 22:4)

1. Candidate Medical Sciences. 2. Of the Clinic for Diseases of the Ear, Throat, and Nose (Head - Prof. D. I. Zimont), Rostov Medical Institute.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED

KHANAMIROV, A.R., dotsent

Fenestration of the ear labyrinth. Vest.oto-rin 17 no.3:34-39
My-Je '55. (MLRA 8:9)

1. Iz kafedry bolezney ikha,gorla i nosa Rostovskogo-na-donu meditsinskogo instituta.

(FENESTRATION technic)

KHANAMIROV, A. R. Doc Med Sci -- (diss) "The Surgical Restoration of Hearing in Otosclerosis Patients." Len, 1957. 28 pp 20 cm.

(Min of Health RSFSR, Len Sanitary Hygien Medical Inst),
250 copies (KL, 19-57, 88)

- 16 -

KHAMAMIROV, A.R., doktor med.nauk

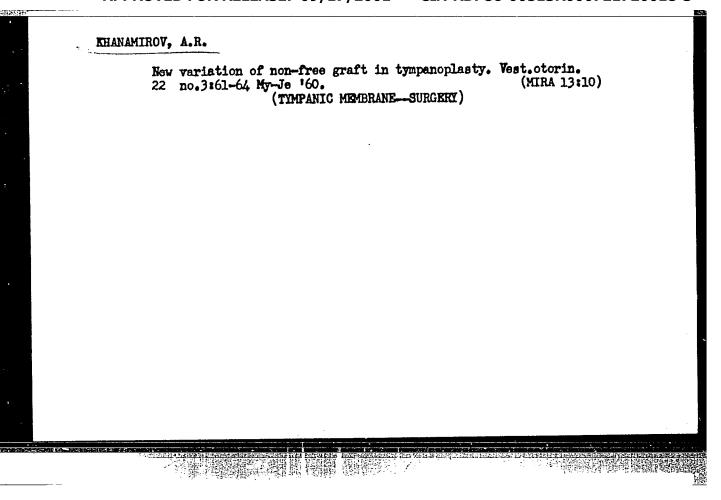
Skin plastic surgery in tympanoplasty [with summary in English]. (MIRA 11:12) Vest.oto-rin. 20 no.5:42-44 S-0 158

1. Iz kafedry holezney ukha, gorla i nosa (zav. A.R. Khanamirov) Gosudarstvennogo meditsinskogo instituta, Rostov-na-Doru.

(EAR, MIDDLE, surgery,

tympanoplasty with skin segment from external ear fold The second secon (Rus))

(EAR, EXTERNAL, surgery skin flap from posteior auricular fold in tympanoplasty, technic (Rus))



Conservative tympanoplasty. Zhur. ush., nos. i gorl. bol. 21 nc.1:
15-19 Ja-F '61. (MIRA 14:6)

(EAR—SURGERY)

KHANAMIROV, A.R., prof. (Rostov-na-Donu)

New international anatomical terminology in otorhinolaryngology.

Vestn. otorinolaring. 25 no.3:3-16 '63 (MIRA 17:1)

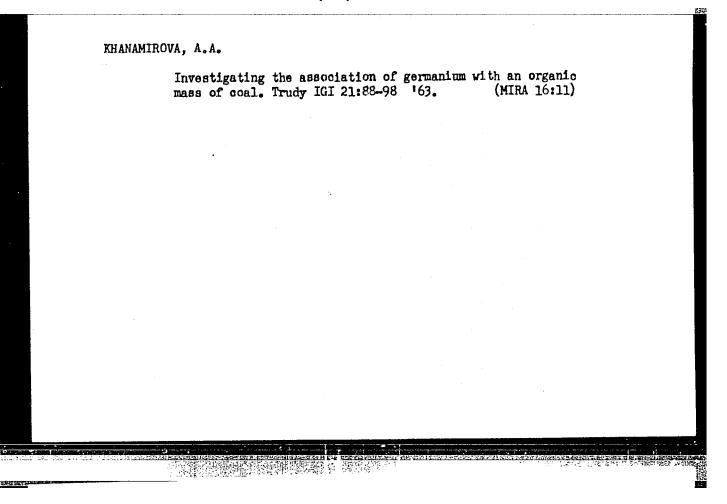
KHANAMIROV, A.H., prof.

Classification of tympanosclerosis. Zhur.ush., nos. i gorl. bol. 24 no.5:30-31 S-0 64. (MIRA 18:3)

1. Kafedra otolaringologii Rostovskogo meditsinskogo instituta.

MIKHAYLOVSKIY, I.K.; FOLLAK, B.P.; BALAKOV, V.F.; KHANAMIFES A.Ye.

Projection and use of single-axis magnetic four tes in the millimeter band. Radiotekh. 1 elektron. 10 no.30:2739-1752 (165. (MIRA 18:10))



S/171/61/014/006/003/005 E075/E136

AUTHORS: Manvelyan, M.G., Khanamiryan, A.A.

Bakhchisaraytseva, S.A., Mkrtchyan, N.T., and

Taliashvili, B.A.

TITLE: Removal of silicon from pure potassium aluminate

solutions

PERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya.

Khimicheskiye nauki, v.14, no.6, 1961, 537-549

TEXT: The object of the present work was to study the effect of factors such as temperature, exposure and caustic modulus of original solution on the removal of silicon from pure potassium aluminate solutions. The apparatus used was a stainless steel autoclave fitted with a stirrer and a heating jacket. The solutions composed of potassium aluminate and potassium silicate were heated at various temperatures (150-225 °C) for 1 to 10 hours. It was found that the increasing temperature leads to a better degree of separation of silicon from the aluminate solutions. The addition of A_2O_3 (2.0-20.0 g/f) to the solution did not increase the degree of separation. The addition of lime gave a Card 1/2

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CIA-RDP86-00513R000721720018-3"

S/171/61/014/006/003/005 E075/E136

Removal of silicon from pure

considerable increase in the separation efficiency via the formation of calcium silicate. The optimal conditions for the removal of silicon from the solutions are as follows; a) temperature 200 °C, treatment 1 hour, CaO added 15.0 g/litre. acaust = 1,22 (to obtain alumina of ["1 (G1) grade containing 0.12% SiO2); b) temperature 200 °C, treatment 0.5 hours CaO added 20.0 g/litre, acaust = 1,22 (to obtain alumina of Gl grade containing 0.11% SiO2); c) temperature 200 °C, treatment 2 hours CaO added 15.0 g/litre, acaust = 1.18 (to obtain alumina of higher purity than the grade Yo (Go) containing 0.06% SiO2) d) temperature 200 °C, treatment 2 hours, CaO 20.0 g/litre, acaust = 1.19 (to obtain alumina of higher purity than grade Gc containing 0.025% SiO2). The proportion of Al203 in the solutions precipitating out under the above conditions is of the order of 8.77-11.66%. There are 4 figures and 6 tables. Institut khimii Sovnarkhoza ArmSSR ASSOCIATION: (Chemistry Institute, Sovnarkhoz Arm. SSR) July 15, 1961 SUBMITTED:

Card 2/2

MANUELYAN, M.G.; KHANAMIRYAN, A.A.; NIKOGOSYAN, B.V.; STEPANYAN, M.G.

Use of white slime as an active additive especially for desiliconizing potassium aluminate solutions. TSvet. met. 37 no.9:43-46 S '64. (MIRA 18:7)

KHANAMIRYAN, Kh.M.

Polarographic study of the catalytic decomposition of hydrogen peroxide in homogeneous alcohol-aqueous solutions. Izv. AN Arm. SSR. Khim.nauki 18 no.1:6-9 165. (MIRA 18:5)

l. Armyanskiy nauchno-issledovatel skiy institut vinogradarstva, vinodeliya i plodovodstva.

DZHANPOLADYAN, L.M.; KHANAMIRYAN, Kh.M.; AFRAMYAN, A.G., red.

[Polarographic methods for the analysis of brandy and wine] Poliarograficheskie metody analiza kon'iakov i vin. Erevan, In-t nauchno-tekhn. informatsii, 1962. 10 p. (MIRA 17:3)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

The 6886 centerless internal grinding machine. Biul.tekh.=ekon. inform. no.8:45-47 '61. (MIRA 14:8) (Grinding machines)

MANVELYAN, M.G.; KHANAMIRYAN, A.A.; BAKHCHISARAYTSEVA, S.A.;
TALIASHVILI, B.A.; MKRTCHYAN, N.T.

Desiliconizing pure potassium aluminate solutions.
TSvet. met. 35 no.7:45-51 Jl '62. (MIRA 15:11)

(Potassium aluminate)

MANVELYAN, M.G.; KHANAMIRYAN, A.A.; MKRTCHYAN, N.T.; BAKHCHISARAYTSEVA, S.A.; TALIASHVILI, B.A.

Desiliconisation of pure potassium aluminate solutions in presence of chemical additives. TSvet. met. 35 no.11:66-74 N '62. (MIRA 15:11)

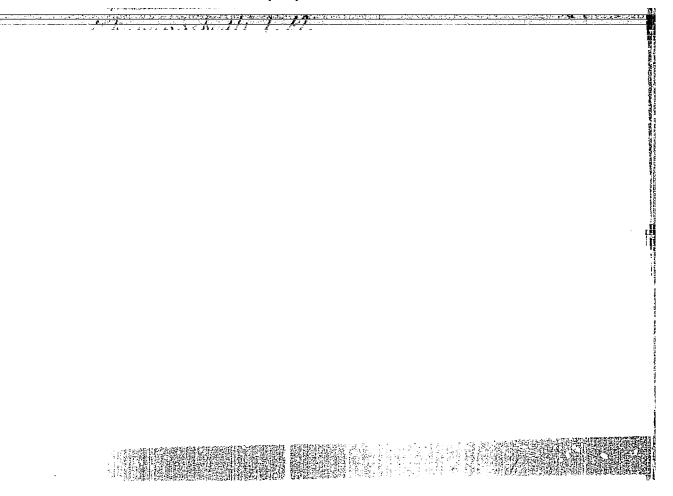
(Potassium aluminate) (Silicon)

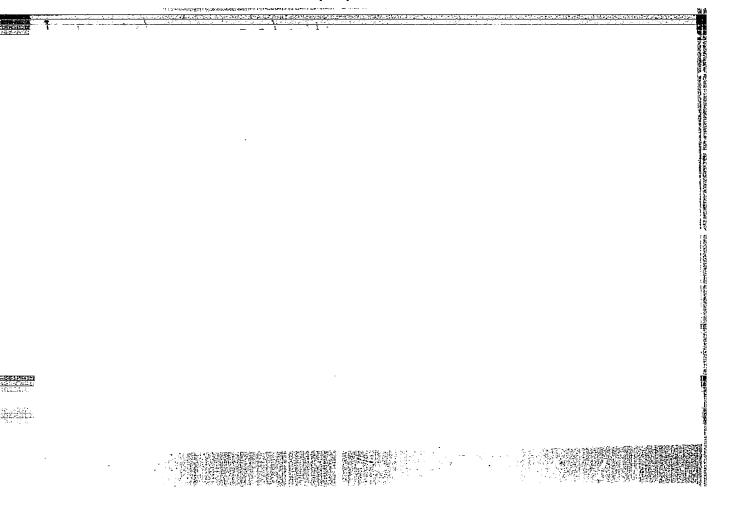
APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

KHANANASHVILI, L. M. Cand Chem Sci -- (diss) "Interaction Between Tetraalkoxy- and Alkylalkoxy-Silanes and KKIKK Their Derivatives and Certain Inorganic Compounds." Mos, 1957. 12 pp 23 cm. (Min of Higher Education USSR, Mos Order of Lenin Chemicotechnological Inst im D. I. Mendeleyev), 120 copies # (KL, 26-57, 105)

- 22 --

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"





KRESHKOV, A.P.; MYSHLYAYEVA, L.V.; KHANANASHVILI, L.M.

Interaction of tetraalkoxysilanes and their derivatives with several classes of inorganic compounds. Trudy MKHTI no.24:333-347 57. (MIRA 11:6)

KHANANASHVILI, L.M.; MYSHLYAYEVA, L.V.; MIKHALEV, B.M.; SHKOL'NYY, V.Yo.

Effect of the aqueous solutions of sodium aluminates on alkylakoxysilanes. Zhur.prikl.khim. 30 no.2:263-271 F *57.

(Mark 10:5)

1.Kafedra analiticheskoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta imeni D.I. Mendeleyeva.

(Sodium aluminates) (Silane)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

KHANANASHVILI, L.H.

Producing new silicate materials by combining silicon organic compounds with certain inorganic compounds. Soob. AN Gruz. SSR 20 no. 3:307-314 Hr 158. (MIRA I1:7)

1. AN GruzSSR, Otdeleniye tekhnicheskikh nauk, Tbiliei. Predstavleno akademikom R.I. Agladze.
(Silicates)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

三部。京连连接为"西湖"在建筑的"安全"。

and representative the property of the control of t

07/77-113-3-25/66 AUTHORS: Ereshlov, A. P., Wyshlysyeve, L. V., Thananachville, L. H. יובינים ביי Synthesis of Organosilicon Oxycompounds From Uninocilanes. (Folucheniye kremneorguniches tich oksicoyedineniy iz eminosilanov) I. Synthesis of the Alkyl-Alkoxy Silanes From alkyl-Thanyl Aminosilanes Thich are Obtained From alkyl-Chloresilanes (I. Polucheniye alkilalkoksisilonov iz alkilfenil-Eminosilanov, sinteziruyemykh no odnove alkilkhlorsilanov) PERIODICAL: Zhurnal obshehey whimi , 1958, Vol. 28, Nr 8, pp. 2112-0114 (USER) ABSTRACT: With the further development of the chemistry of organosilicon compounds their practical exploitation has as well increased. The alkyl-alkoxy silanes are used in the proctice of the modification of various classes of inergenic and organic compounds and as semiproducts forthe synthesis of the high-molecular organosilicon compounds (Ref 1). The following synthesis methods of these compounds are known from publications: 1) .lkylation of the alkoxy silenes or helogen alkoxysilanes with the aid of organozine compounds and metallic sodium (Ref 2) (2 Schemes). 2) Alkylation of the alkoxy silanes Card 1/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

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Uynthesis of Organosilicon Oxycompounds From Aminosilanec. I. Synthesis of the Alkyl-Alkoxy Silanes From Thyl-Shenyl Joirosilanes Thich Are Obtained From Alkyl-Chlorosilanes

or halogen oxysilenes with the did of organomagnetium compounds (Mefs 3-5) or organolithium compounds (Mefs 6, 7) (2 Schemer). 3) Tubstitution of the hydrogen in alkyl calanes by alkoxy groups in the case of action of alcohols in the presence of lithium, sodium, potagrium, and rubilium alcoholate (1 Scheme). 4) Witherification of the alkyl halogen silenes with the sile of clochols (4 Scheme). Those methods have, however, sortein thortcomings. Only the fourth method can be used geonomically, though the production of products is accompanied by secondary reactions. The authors worked out a new synthesis method of the alkyl-alkowy vilenes. It consists in the transformation of the alkyl-chlore vilenes with aniline with subsequent treatment with the alcohols of the produced alkyl-phenyl amino silenes (both reaction processes are given in the achemes (a) and (b)). The yield for the scheme (a) amounted to 100, for the scheme (b) to 80 - 95%. There are 12 references, ? of which are feviate.

Cerd 2/3

Synthesis of Organogilicon Oxycompounds From Aninosilanes. F. Transaction of Alkyl-Alkoxy Filanes From Alkyl-Henyl Eminosilanes high Later of From Alkyl-Chlorogilanes				
anbwidend:	July 10, 1957			
,				
Card 3/3				

KRESHKOV, A.P.; MIKHAYLENKO, Yu.Ya.; MYSHLYAYEVA, L.V.; KHANANASHVILI, L.M.

Investigating the products of the reaction of some silicon organic compounds with water-alkaline solutions of aluminates, stannates, and plumbites by means of infrared absorption spectroscopy. Zhur.prikl. khim. 31 no.11:1746-1749 N '58. (MIRA 12:2)

(Silicon organic compounds—Spectra)

(Silicon organic compounds--Spectra)
(Spectrum analysis)

5(0) AUTHORS:

SOV /72-59-4-3/21 Kreshkov, A. P., Keshishyan, T. N.,

Myshlyayeva, L. V., Khananashvili, L. M.

TITLE:

Investigation and Application of Synthetic Organic Silicates (Issledovaniye i primeneniye iskusstvennykh organicheskikh

silikatov)

PERIODICAL:

Steklo i keramika, 1959; Nr 4, pp 11-14 (USSR)

ABSTRACT:

The theoretical bases of the formation of organic silicates are shown in the papers by A. P. Kreshkov, A. N. Chivikova, V. A. Matveyev, G. N. Nessonova, M. L. Darashkevich (Ref 1). The synthetic silicates have a number of valuable properties: good adhesion to glass, metal, asbestos, tissues, and abrasives. They may be used for the production of films for glass and metal which do not break in heating and they are also highly acid-proof. The products which are obtained on the basis of alkylalkoxy-silanes are characterized by a good solubility in water. Their aqueous solutions are used as hydrophobic impregnations of building material, A. P. Kreshkov, L. V. Myshlyayeva, L. M. Khananashvili (Ref 2) carried out their spectrum and X-ray structural analyses as well as the microcrystalloscopic investigation. Since it is possible to use

Card 1/2

Investigation and Application of Synthetic Organic SOV/72-59-4-3/21 Silicates

the obtained products as glues and coatings at high temperatures their behaviour in heating was thermographically in. vestigated. For this purpose the self-recording pyrometer of the Academician N. S. Kurnakov was used as well as the torsion balance of the VT type. In these investigations the authors refer to the papers by L. M. Khananashvili, L. V. Myshlyayeva, D. M. Mikhalev, V. Ye, Shkol'nyy (Ref 3) The characteristics of the products are given in the table. On figures 1, 3, 5, and 6 the beating curves of the products 1, 2, 5, and 6 are plotted and on figures 2, 4, and 7 the curves of weight in heating of the products 1, 2, and 6 are given. The crystallo-optical investigations were performed on the basis of the paper by D. S. Belyankin, V. V. Lapin, N. A. Toropov (Ref 4). As may be seen from the copyrights of A. P. Kreshkov, L. V. Myshlyayeva, L. M. Khananashvili (Ref 5) the hitherto used skin glue which is a shortage-good, may be replaced by a glue on the basis of synthetic silicates for the gluing of tissues to grinding disks. The products obtained may be used in various fields of building and silicate material industry . There are 7 figures, 1 table, and 6 Soviet references.

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

83820

s/190/60/002/005/010/015 B004/B067

15.8116 also 2209 Khananashvili, L. M., Konopchenko, Yu.F. Andrianov, K. A.,

Synthesis of Eight-membered Mixed Organocyclosiloxanes and AUTHORS:

Their Polymerization TITLE:

Vysokomolekulyarnyye soyedineniya, 1960, Vel. 2, No. 5,

PERIODICAL:

schydrolyzing dimethyldichlorosilane and methylvinyldichlorosilane they obtained heptamethylvinylcyclotetrasiloxane (1); hexamethyldivinylcyclotetrasiloxane (2); pentamethyltrivinylcyclotetrasiloxane, and by cohydro lyzing dimethyldichlorosilane with diethyldichlorosilane they obtained hexamethyldiethylcyclotetrasiloxane (4). Furthermore, by cohydrolyzing dimethyldichlorosilane with phenylethyldiethoxysilane, hexamethylethyl phenylcyclotetrasiloxane (5) was obtained; and by hydrolyzing methylvinyl dichlorosilane in an acid medium, tetramethyltetravinylcyclotetrasilcxane (6) was obtained. The yields were about 80%. The compounds were analyzed by Z. M. Kuptsova. Their molecular weight and the bromine number of the Card 1/3

83820

Synthesis of Eight-membered Mixed Organocyclo- S/190/60/002/005/010/015 siloxanes and Their Polymerization B004/B067

compounds containing vinyl groups were determined. N. P. Gashnikova took the infrared spectra. Fig. 1 shows the infrared spectra of (1) and (5). The physical data of the compounds are given in Table 1. The authors polymerized compounds (1) - (6) by means of potassium hydroxide at 130°C, and studied the influence exerted by the various radicals on the course of polymerization. Table 2 gives the results for (5) on variation of the KOH concentration between 0.5 and 1.5%. With 0.5% KOH the yield was 77.3%; with 1.5% KOH it was 91.5%, with decreasing viscosity. Fig. 2 shows the volume change in the polymerization of (5). The largest decrease in volume was observed with 0.5% KOH. Hence, the other compounds were polymerized by means of 0.5% KOH (Fig. 3). The experimental data are given in Table 3. According to their influence on the polymerization coefficient, the sil...

 $\frac{H_2 - HC}{H_3 C}$ si $<>\frac{H_5 C_2}{H_5 C_2}$ si $<>\frac{H_5 C_2}{H_5 C_6}$ · Si<

There are 3 figures, 3 tables, and 9 references: 2 Soviet, 4 US, ! British, and 1 Japanese.

Card 2/3

EC765

S/079/60/030/04/68/080 B001/B011

5.3700

AUTHORS:

Kreshkov, A. P., Myshlyayeva, L. V., Khananashvili, L. M.

TITLE:

Investigations in the Field of Aminosilanes, II. Methods of Synthesizing Some Tetraalkoxy Silanes

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1347-1350

TEXT: The authors discuss the traditional methods of synthesizing tetra-alkoxy silanes (Refs. 1-7). According to Ref. 4, the ternary mixture Si(OCH₃)₄-CH₃OH-HCl boils at 69°. These components react with one another in two stages: 1) by reaction of HCl with the alcohol, under fermation of methyl chloride and water, 2) by the hydrolysis of ester by means of the separated water until the precipitate nSiO₂·mH₂O is formed. On analyzing the reaction products with a lower boiling temperature than that of SiORCl₃, the authors found them to contain considerable quantities of tetralkoxy silanes and alcohol. The change in the composition of low-boiling fractions with temperature is represented in the form of a triangular diagram in the comportance Si(OR)₄-CH₃OH-HCl. Analytical and graphical data were similar for Card 1/3

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Investigations in the Field of Aminosilanes. II. Methods of Synthesizing Some Tetraalkoxy Silanes

S/079/60/030/04/68/080 B001/B011

some syntheses, which fact made it possible for this diagram to be used for the quick determination of the composition of the mixture by way of determining one component (HC1). Processes were investigated which take place in the synthesis of tetraalkoxy silanes. It was found that some esters of orthosilicic acid can be obtained in much better yields by a complementary treatment of the side products as are obtained in the esterification with SiC1₄. A new method of synthesizing tetraalkoxy silanes was worked out by reacting chlorosilanes with different amines with a subsequent alcoholic treatment of the resulting amino silanes:

SiC1₄ + 8RNH₂ → Si(NHR)₄ + 4RNH₂.HC1;Si(NHR)₄ + 4R'OH → Si(OR')₄ + 4RNH₂ (R = CH₃, C₆H₅, CH₃C₆H₄).

There are 1 figure and 14 references, 12 of which are Soviet.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I.

Mendeleyeva (Moscow Institute of Chemical Technology imeni
D. I. Mendeleyev)

Card 2/3

25040 s/062/61/001/006/002/010 B118/B220

AUTHOR:

Andrianov, K. A., Vasil'yeva, T. V.,

and Khananashvili, L. M.

TITLE:

Condensation of methyl phosphinic acid with \ll , ω - diethoxy-dimethyl siloxanes

PERIODICAL:

Akademiya nauk SSSR. Izvestiya.

Otdeleniye khimicheskikh nauk, v. 1, no. 6, 1961, 1030-1035

TEXT: The present paper deals with the condensation of $\mathscr{A}_+ \otimes - \mathtt{diethoxy-}$ dimethyl siloxanes with methyl phosphinic acid. This reaction proved to be an easy method of synthesizing the mixed organo-silicon phosphorus compounds resulting primarily in the formation of cyclic, not high-polymer compounds. An increase of the distance between the alkoxy groups in lpha , ϕ -diethoxy-dimethyl siloxanes does not alter the direction of the reaction. In any case, the reaction proceeds according to the following equation

Card 1/4

APPROVED FOR RELEASE: 09/17/2001

。 第四章的基本表演的

CIA-RDP86-00513R000721720018-3"

25040 s/062/61/001/006/002/010 B118/B220

Condensation of methyl phosphinic...

$$c_2H_5O[(cH_3)_2SiO]_nc_2H_5 + HO P CH_3 + [(cH_3)_2SiO]_n PO CH_3$$

In the case of condensation of methyl phosphinic acid with <...-diethoxy-dimethyl siloxanes of the general formula $C_2H_5O\{(CH_3)_2SiO\}_n$ C_2H_5 , with n=1 to 5, it has been established that the siloxane bond does not split if n=4. In this case, the cyclic compounds formed contain as many

if n=4. In this case, the cyclic compounds formed contain as many dimethyl siloxane groups as the initial α , ω -diethoxy-dimethyl siloxane. Thus, on condensation of methyl phosphinic acid with α , ω -diethoxy-dimethyl siloxane, the following compounds have been separated; hexamethyl cyclomethyl phosphinoxy-trisiloxane if n=3, and octamethyl cyclomethyl phosphinoxy-tetrasiloxane, if n=4. On condensation of methyl phosphinic acid with α , ω -diethoxy-dimethyl siloxane, tetramethyl cyclomethyl phosphinoxy-disiloxane is formed if n=2. Condensation of methyl phosphinic acid with dimethyl diethoxy silane results in tetramethyl

Card 2/4

25040 s/062/61/001/006/002/010 B118/B220

Condensation of methyl phosphinic ...

cyclodi (methyl phosphinoxy) disiloxane. On condensation of methyl phosphinic acid with X, & -diethoxy-dimethyl siloxane, the siloxane bond splits to form hexamethyl cyclomethyl phosphinoxy prisiloxane if n = 5, whereby only a small amount of decamethyl cyclomethyl phosphinoxy-pentasilexane is separated. The resulting colorless, viscous liquids distillable in vacuo are hydrolyzed already by atmospheric moisture. Infrared absorption spectra(besides the analytical data)were studied to establish the composition and structure of hexamethyl cyclomethyl phosphinoxytrisiloxane, tetramethyl phosphinoxy-disiloxane, and tetramethyl cyclodi (methyl phosphinoxy)disiloxane. The bands characteristic of the groups: CH3; Si-CH3; P = O; and Si-O-Si were detected in these spectra. The spectra of hexamethyl cyclomethyl phosphinoxy-trisiloxane, tetramethyl cyclodi(methyl phosphinoxy)disiloxane, tetramethyl cyclomethyl phosphinoxydisiloxane show absorption bands of the groups Si-O-V and Si-O-Si. In order to confirm the structure of hexamethyl cyclonethyl phosphinoxytrisiloxane, tetramethyl cyclomethyl phosphinoxydisiloxane, and tetramethyl di(methyl phosphinoxy)disiloxane, these compounds were submitted to a hydrolytic decomposition. The water destroys the latter according to Card 3/4

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721720018-3

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Condensation of methyl phosphanis.

the following equation.

 $[(cn_3)_2] = \frac{1}{2} + n_2 + n_3 = \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{1}{3}$

This hydrolysis results in by-product age. 1.9 (h. cr. i tomaked for taking the infrare pentriof the consciunds obtained to the infrare pentriof the consciunds obtained. The returned to English-language publication reads a cilouse F. H. of J. Amer. Open., Soc. 71, 2916 (1949)

ASSOCIATION: Institut tenkoy khisioneskoy teknnologii is. M. V.

Lomonosova (Institute of Fine Chemical Technology

im. M. J. Lomonosov)

SUSMITTED:

July 6. 1%0

Card 4/A

S/075/61/016/006/006/006 B106/B147

AUTHORS:

Andrianov, K. A., Khananashvili, L. M., and Vasil'yeva, T. V.

TITLE:

Methods for determining phosphorus in phosphorus silicon-

compounds

PERIODICAL:

Zhurnal analiticheskoy khimii, v. 16, no. 6, 1961, 738-739

TEXT: The authors suggest a simple method for determining phosphorus in phospho-organosilicon compounds with the structure

$$\begin{bmatrix} R_2 Si0 \end{bmatrix}_n P \begin{bmatrix} 0 \\ CH_3 \end{bmatrix}$$
, which is based on their hydrolysis:

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$$\begin{bmatrix} R_2 \text{Sio} \end{bmatrix}_n P \begin{bmatrix} CH_3 \\ CH_3 \end{bmatrix} + H_2 O \longrightarrow \begin{bmatrix} R_2 \text{Sio} \end{bmatrix}_n + CH_3 P(OH)_2;$$

Card 1/4 2

NATA DEFASE PERMENTAN PENANGHAN AND PENANGHAN PENANGHAN

S/075/61/016/006/006/006 B106/B147

Methods for determining ...

 $R_3SiO-\stackrel{\text{II}}{C}O-SiR_3 + H_2O \longrightarrow CH_3\stackrel{\text{P}}{C}OH)_2 + R_3Si-O-SiR_3$

0.2-0.3 g of the substance is dissolved in water and subjected to hydrolysis for 4-5 hr. When heated to 80°C complete hydrolysis is already achieved after 30-40 min. The alkyl phosphinic acid is titrated by analkali 0.1 N in the presence of thymol phthalein (pH 9.4-10.6). Compounds of the general formula

 $[(CH_3)_2 \text{SiO}]_n^p = \begin{bmatrix} 0 \\ CH_3 \end{bmatrix}$ were analyzed by the above method (n = 1, 2, 3). In

all cases, the results were in good agreement with the results expected from the formula. Deviations of parallel determinations amounted to 0.2-0.3%. There are 2 tables.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im.

M. V. Lomonosova (Moscow Institute of Fine Chemical

Technology imeni M. V. Lomonosov)

SUBMITTED: Card 2/4

July 6, 1960

15.8114 2209

S/079/61/031/001/018/025 B001/B066

AUTHORS:

Andrianov, K. A., Zhdanov, A. A., Khanarashvili, L. M., and

Shapatin, A. S.

TITLE:

Reactions of Aluminum Isopropylate With Some Organo-

phosphorus Compounds

PERIODICAL:

Zhurnal obshchey khimii, 1961, Vol. 31, No. 1, pp. 224 - 228

TEXT: The authors studied the reaction of aluminum isopropylate with the acid chlorides of methyl-m-cresoxy phosphinic acid and dimethyl phosphinic acid, in order to use them as initial products for the synthesis of polymers with inorganic molecular chains. One of the initial organophosphorus compounds, the acid chloride of methyl-m-cresoxy phosphinic acid, was obtained by reaction of methyl phosphinic acid dichloride with m-cresol at 120 - 140°C:

+ HCl (1)

COC6H4CH3 - m

Card 1/3

Reactions of Aluminum Isopropylate With Some Organophosphorus Compounds

S/079/61/031/001/018/025 B001/B066

As by-product, considerable quantities of di-m-cresyl ester of methyl phosphinic acid are formed. Higher excess of the dichloride of methyl phosphinic acid gives a large yield of the chloride of methyl-m-cresoxy phosphinic acid and a low yield of the afore-mentioned by-product. The reaction of the chloride of methyl-m-cresoxy-phosphinic acid with aluminum isopropylate was expected to proceed according to the following equation:

However, in addition to isopropyl chloride, also the isopropyl-m-cresyl ester was separated which is indicative of side reactions. At an elevated reaction temperature (140 - 200°C) still more complicated compounds resulted, which renders the separation of individual reaction products very difficult. To confirm the assumption on the course of reaction, tris(methyl-m-cresoxy-phosphinoxy)aluminum was synthesized. The reaction was carried out at 90 - 100°C to avoid separation of the cresoxy group. Under these conditions, tris(methyl-m-cresoxy-phosphinoxy)aluminum resulted in a yield of 59 %, isopropylchloride in a yield of 67 %, which Card 2/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RUP86-00513R000721720018-3"

Reactions of Aluminum Isopropylate With Some S/079/61/031/001/018/025 Organophosphorus Compounds S/079/61/031/001/018/025

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confirmed the predicted course of reaction. The reaction of dimethyl phosphinic acid with aluminum isopropylate takes place according to equation (5):

 $(CH_3)_2$ POH + $(i-C_3H_7O)_3$ Al \longrightarrow $(i-C_3H_7O)_2$ Al-O-P(CH₃)₂ + $i-C_3H_7$ OH.

This is confirmed by a nearly quantitative separation of isopropyl alcohol (99 %). According to ultimate analysis, the product distilling from the reaction mass at 164°C corresponds to dimethyl-phosphinoxy-(diisopropyl) aluminum which is contaminated. The vitreous, colorless product is soluble in common aromatic solvents. G. B. Ravich and I. F. Manucharova are thanked for their cooperation. There are 1 figure and 10 references: 4 Soviet, 2 British, 2 German, and 1 Czechoslovakian.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology)

SUBMITTED: February 20, 1960

Card 3/3

S/079/61/031/001/019/025 B001/B066

15.8114 2209

AUTHORS:

Andrianov, K. A., Khananashvili, L. M., Kazakova, A. A.,

and Ivanov, A. A.

TITLE: Synthesis of Poly(phenoxy-methyl-phosphinoxy) Aluminum Oxanes

PERIODICAL: Zhurnal obshchey khimii, 1961, Vol. 31, No. 1, pp. 228 - 231

TEXT: Following their papers of Refs. 1 and 2, and in view of Ref. 3, the authors now studied the syntheses of some organophosphorus-aluminum compounds and tried to convert them to polymers with a principal chain of aluminum oxanes. The synthesis of these organophosphorus-aluminum compounds was made by esterification of the acid chloride of methyl phosphinic acid with phenol, combined with a reaction of the resultant methylphenoxy phosphinic acid chloride with aluminum-n-butylate, according to the equation:

Card 1/3

Synthesis of Poly(phenoxy-methyl-phosphinoxy)
Aluminum Oxanes

S/079/61/031/001/019/025 B001/B066

Compound (I), hitherto not yet described, was separated in pure condition by distillation of the reaction products (26.2 %). The low yield is due to the formation of compound $\text{CH}_3\text{PO}(\text{OC}_6\text{H}_5)_2$ and, presumably, of a mixture of

condensation products of the organophosphorus compounds present. The yield of butyl chloride was $58 \,\%$. The reaction carried out at $80 - 90^{\circ}\text{C}$ yields phenoxymethyl-phosphinoxy-dibutoxy aluminum (II). Elevated temperatures give compounds insoluble in organic solvents. The viscosity of the product of the hydrolysis of compound (II) rapidly increases. This hydrolysis

probably gives: C₄H₉0-A1-0-A1-0-CH₃P=0 CH₃P=0 OC₆H₅ OC₆H₅

The increase in viscosity depends on the water quantity applied, it is most pronounced at the beginning reaction. The hydrolysis products separated from the solution are solid compounds soluble in butyl alcohol. A study of the thermomechanical properties of the hydrolysis products

reveals that an increase on the water quantity in the above hydrolysis does not affect the flow temperature of the polymer considerably, but somewhat decreases the interval between the temperatures of vitrification

Card 2/3

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Synthesis of Poly(phenoxy-methyl-phosphinoxy)
Aluminum Oxanes

S/079/61/031/001/019/025 B001/B066

and of flow. Evaporation of the polymer solution on a solid surface gave brittle films. There are 2 figures and 3 references: 2 Soviet and 1 German.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii

(Moscow Institute of Fire Chemical Technology)

SUBMITTED: February 20, 1960

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Card 3/3

B/062/62/000/006/006/008 B117/B101

AUTHORS:

Tsitsishvili, G. V., Bagratishvili, G. D., Andrianov, K. A., Khananashvili, L. M., and Kantariya, M. L.

TITLE:

Study of infrared spectra of cyclic organosiloxanes

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 6, 1962, 1014 - 1019

TEXT: Infrared spectra of octamethyl cyclotetrasiloxane (I), trimethyl triphenyl cyclotrisiloxane (III), tetramethyl tetraphenyl cyclotetrasiloxane (IV), and 8 cycloorganotetrasiloxanes with methyl, ethyl, ethoxyl, butoxyl, phenyl, vinyl, and nitrile groups were investigated. The infrared spectra of (I), (III), and (IV) agreed with those described in the literature. The spectra of the other 8 cycloorganotetrasiloxanes were obtained for the first time. Stretching vibrations of the Si-O+Si group were determined for all organotetrasiloxanes in the form of broad, very intense

1080-1089 cm⁻¹ bands; the positions of these were constant and scarcely effected by the character and number of the substituents. The corresponding band of the trimers appears at 1020 cm⁻¹ and is less intense. The Card 1/3

S/062/62/000/006/006/008 B117/B101

Study of infrared spectra ...

bands corresponding to the stretching vibrations of the CH=CH_group were found for compounds with 1 to 3 vinyl groups at 1596 cm⁻¹; they became more intense with increasing number of these groups. The lower frequency of stretching vibrations of the C=C bond is due to the strong effect of the Si atom on the vinyl group. This effect is greater than that of the conjugate phenyl ring, and is commensurable with the effect of conjugate C=C or C=O bonds. The bands of the vinyl group found at 959 and 1006 cm originate in uneven deformation vibrations of the CH bond in =CH₂ and =CH.

The intensity of these bands grows proportionally with the number of vinyl groups. Bands corresponding to stretching vibrations of the Si-C₆H₅ group were found at 1434 cm⁻¹ for organocyclosiloxanes with phenyl groups. The 1034 cm⁻¹ band ascribed to the Si-C₆H₅ group by L. Spialter, D. S. Priest, C. W. Harris (J. Amer. Chem. Soc. 77, 6227 (1955)) is masked by the vibrations of the Si-O-Si group; it appears distinctly in trimers only. Stretching vibrations of the Si-CH₅ and Si(CH₃)₂ groups were observed in all cycloorganosiloxanes in the form of broad bands at 1258-1263 cm⁻¹. Bands at 960 and 1010 cm⁻¹ were found for the ethyl radical bound to silicon corresponded 2/3

s/190/62/004/004/015/019 Andrianov, K. A., Khananashvili, L. M., Belen'kaya, I. S. Synthesis and polymerization of dimethyl cyclosiloxanes with AUTHORS silsesquioxane bonds Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962, 591-595 TITLE: Bi- and tricyclic compounds of the dimethyl siloxane series with PERIODICAL: were obtained by hydrolysis and con-TEXT: silsesquioxane bonds - 0 - Si densation of hexamethyl ethyl cyclotetrasiloxane and tetramethyl diethyl cyclotetrasiloxane. The hydrolysis of the hydrogen-containing cyclotetrasiloxanes synthetized by the method described in Ref. 3 (N. N. Sokolov, Zh. Obshchey khimii, 29, 248, 1959) was carried out in alkaline medium (caustic soda) at room temperature, and the condensation in acid medium (hydrochloric acid, pH 5) at 40-45°C. The following substances were obtained: bis-(hexamethyl ethyl cyclotetrasiloxanyl)oxide (I) (SigC16H46O9, boiling point 135-147°C/1-2 mm HG) and a tricyclic compound (II) with the structure: Card 1/3

S/190/62/004/004/015/019 B117/B138

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Synthesis and polymerization...

$$(CH_3)_2 \qquad (CH_3)_2 \qquad (CH_3)_3$$

$$Si \qquad Si \qquad Si$$

$$(CH_3)_2 Si \qquad (CH_3)_3$$

$$(CH_3)_3 Si \qquad (CH_3)_3$$

$$(CH_3)_3 Si \qquad (CH_3)_3$$

$$(CH_3)_3 \qquad (CH_3)_3$$

(Si₁₂C₂H₆₈O₁₄, boiling point 240-250°C/2°10⁻² mm Hg). Both compounds are readily soluble in benzene, toluene and ethyl alcohol. They easily polymerize at room temperature (in toluene solution in the presence of 0.3% KOH), (I) producing an insoluble polymer after 93 hr and (II) after 20.5 hr. The reactivity increases with a higher number of silsesquioxane links in the reactivity increases with a higher number of silsesquioxane links in the chain. The stronger reactivity of silsesquioxane bonds as compared with siloxane bonds is probably connected with the fact that the silicon atom siloxane bonds is probably connected with the fact that the silicon atom bonded with three oxygen atoms is more electropositive and the attack of these bonds gets more effective during the action of nucleophilic reagents. There are 2 figures and 1 table.

S/190/62/004/005/013/026 B110/B108

15,9205

AUTHORS: Andrianov, K. A., Vasil'yeva, T. V., Khananashvili, L. M.

TITLE: Polymerization of dimethyl cyclomethyl phosphinoxysiloxanes

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962, 708 - 713

TEXT: An attempt was made to polymerize inorganic cycles containing silicon, oxygen, and phosphorus, and to copolymerize them with octamethyl cyclotetrasiloxane. Tetramethyl cyclometh'l phosphinoxydisiloxane and hexamethyl cyclomethyl phosphinoxytrisiloxane were polymerized with ${\rm H_2SO_4}$,

dichloroanhydride of methyl phosphinic acid, tin chloride, and KOH. The slight increase in viscosity indicated that polymerization was very poor. The thermal copolymerization of octamethyl cyclotetrasiloxane with tetramethyl cyclodi(methylphosphinoxy)disiloxane proceeded slowly while forming low-molecular products. In addition, the copolymerization of octamethyl cyclotetrasiloxane with tetramethyl cyclomethyl phosphinoxydisiloxane or tetramethyl cyclodi(methylphosphinoxy)disiloxane was studied at Si:P ratios of 6:1, 21:1, 42:1, 101:1, 201:1, and 301:1 in the presence of water. The amounts of water were sufficient for the hydrolysis of Card (1/3)

S/190/62/004/005/013/026 B110/B108

Polymerization of dimethyl

dimethyl cyclomethyl phosphinoxysiloxane. Two of the resultant polymers were liquid, and three were elastomers with $[\eta]$ equal to 0.100, 0.202, 0.448 and with molecular weights of 12,590; 37,150; 125,900, respectively. At a ratio of Si to P = 21:1 and at a temperature of 100° C, polymerization takes place within the first six hours. At Si:P = 42:1, the rate of polymerization is temperature-dependent. The resulting transparent polymers, which are soluble in organic compounds, become dull, insoluble, and elastic on standing in air. The structuralization, which is irreversible after 60 min, is attributed to the formation of a hydrogen bond:

A built-up system is formed if the polymer chain contains several methyl phosphine groups. The resultant intermolecular forces cannot be removed even by boiling in polar solvents for 30 hrs. The structuralized polymer exhibits an infrared absorption band at $1600 - 1700 \text{ cm}^{-1}$. A study of the Card 2/3

ANDRIANOV, K.A.; KHANANASHVILI, L.M.; BELEH'KAYA, I.S.

CHARLESTA BORRENBERTER CHECKER CENTRES CONTRACTOR

Synthesis and polymerization of dimethylcyclosiloxanes with silsesquioxanic bonds. Vysokom.soed. 4 no.4:591-595 Ap 162.

(MIRA 15:5)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

(Silicon organic compounds) (Polymerization)

S/079/62/032/010/008/008 D214/D307

AUTHORS:

Andrianov, K.A., Khayduk, Ionel, Khananashvili, L.M.,

and Nekhayeva, N.I.

TITLE:

The synthesis of dimethylcyclosilthioxanes

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 10, 1962, 3447

TEXT: A description of the synthesis of two examples of a hitherto unknown class of compounds: cyclosilthioxanes. The treatment of 1,3-dichlorotetramethyldisiloxane with H₂S in the presence of pyridine gave a crystalline compound (b. range 116-122°C/2 mm Hg; m.p. 38-42°C). From the quantitative analysis of this compound and from ir, which showed the presence of Si-O-Si, Si-S-Si and Si-CH₃ bonds, the structure was found to be (CH₃)₂ Si O Si(CH₃)₂S Si(CH₃)₂O Si (CH₃)₂S'. Under similar conditions 1,5-dichloro-hexamethyltrisiloxane gave a colorless, transparent liquid (b. range 170-172.5°C) the structure of which was shown to be (CH₃)₂ SiOSi(CH₃)₂SSi(CH₃)₂O'.

The synthesis of ...

S/079/62/032/010/008/008 D214/D307

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M.V. Lomonosov)

SUBMITTED:

May 20, 1962

Card 2/2

TSITSISHVILI, G.V.; BAGRATISHVILI, G.D.; ANDRIANOV, K.A.; KHANANASHVILI, L.M.; KANTARIYA, M.L.

Infrared spectra of cyclic organosiloxanes. Izv.AN SSSR.Otd.-khim.nauk no.6:1014-1019 '62. (MIRA 15:8)

1. Institut khimii im. P.G.Melikishvili AN Gruzinskoy SSR i Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova. (Silicon organic compounds—Spectra)

TSITSISHVILI, G.V.; BAGRATISHVILI, G.D.; ANDRIANOV, K.A.; KHANANASHVILI, L.M.; KANTARIYA, M.L.

Infrared spectra of cyclic organosilazanes. Izv.AN SSSR.Otd.khim. nauk no.7:1197-1198 Jl '62. (MIRA 15:7)

1. Institut khimii im. P.G.Milikishvili AN Gruzinskoy SSR i Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova. (Silazanes—Spectra)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

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S/079/62/032/007/005/007

1032/1232 Andriyanov, K. A., Vasil'yeva T. V., Nudelman Z. N., Khananashvili, L. M., Kochetkova,

A. C. and Cherednikova, A. G.

Dimethyl-tin-dichloride; its synthesis and a study of its reaction with disodium salts of

1.

PERIODICAL: Zhurnal obshchei khimii, v. 32, no. 7, 1962, 2307-2311

TEXT: Reaction of methyl chloride with stannous chloride in the presence of spongy metallic copper gives dimethyl-tin-dichloride (I) and methyl-tin-trichloride (II) according to the scheme

 $2SnO + 2CH_3Cl - (CH_3)_2SnCl_2 + SnO_2$,

 $2SnO + 3CH_3CI - CH_3SnCl_3 + SnO_2 + CH_3CH_3$.

The reaction takes place between 250° and 350°C; the yield of the process and the ratio between I and II in the reaction product are temperature dependent. At 250°C mainly dimethyl-tin-dichloride is formed. The reaction of dimethyl tin-dichlorides and diethyl-tin-dichlorides with disodium salts of dimethyl-siloxanes gives polymer products the molecular weight of which exceeds 3000. There is 1 figure and 3 tables. The English-language reference [8] reads: E. Rochow, Smith, J. Am. Chem. Soc., 75, 4103 (1953).

SUBMITTED: July 5, 1961

Card 1/1

AUTHORS:

TITLE:

ANDRIANOV, K.A.; KHAYDUK, Ionel; KHANANASHVILI, L.M.; NEKHAYEVA, N.I.

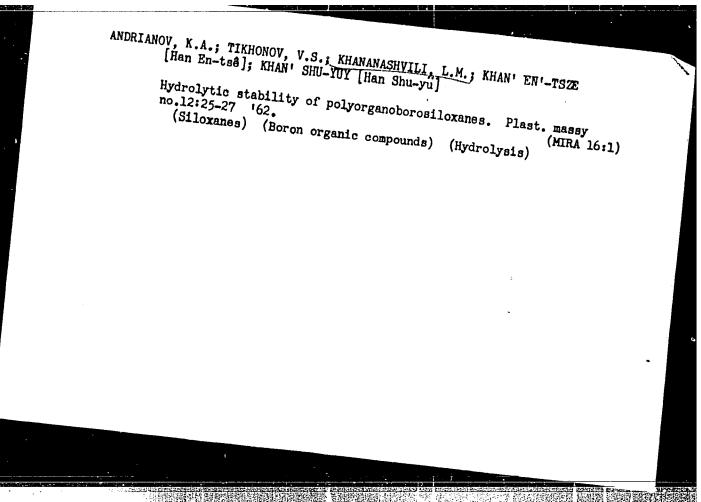
Synthesis of dimethylcyclosilthioxane. Zhur.ob.khim. 32 no.10:3447 0 162. (MIRA 15:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova.

(Silicon organic compounds)
(Oxathiane)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

ANDRIANOV, K.A.; VASIL'YEVA, T.V.; NUDEL'MAN, Z.N.; KHANANASHVILI, L.M.; KOCHETKOVA, A.S.; CHEREDNIKOVA, A.G.

[17]大陸並出於 [16]中部組織的於[12][25]為特別指揮[26][36] - 5][26]在特別中2世代的

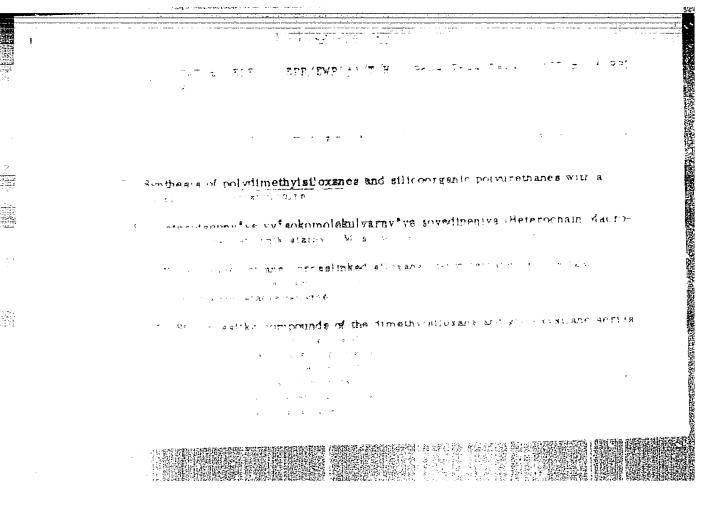
Preparation of dimethyl tin dichloride and study of its reaction with disodium salts of dimethylsiloxanes. Zhur.ob.khim. 32 no.7:2307-2311 Jl 162. (MIRA 15:7) (Tin organic compounds) (Siloxanes)

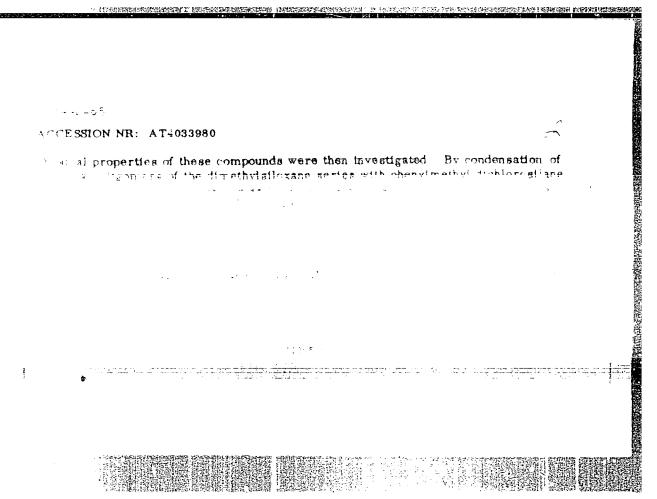
ANDRIANOV, K. A.; KHANANASHVILI, L. M.; KHAN' EN'-TSZE[Han En-tse];

Reaction of dimethyldichlorosilane with iron oxide. Zhur. ob. khim. 32 no.12:3951-3952 D'62. (MIRA 16:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M. V. Lomonosova.

(Silane) (Iron oxides)





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	& ph	ycoxy) silane. lenyl-tris-(ethyl- leglycoxy)silane	CHF//OCH ^C CH ^C OH)*		A Commission of the Commission			

ANDRIANOV, K.A.; KHANANASHVILI, L.M.; TIKHONOV, V.S.;
KHAN'-SHU-YUY [Han Shu-yü]; KHAN'-EN'-TSZE [Han En-tsê]

Polyorganoborosiloxanes. Plast.massy no.1:21-25 '63. (MIRA 16:2)
(Boron organic compounds)
(Polymers)

(Siloxanes)

L 17063-63 EWP(j)/EPF(c)/EWT(m)/BDS Pc-4/Pr-4 RM/WW

\$/062/63/000/004/009/022

AUTHOR:

Andrianov, K. A., Klimova, M. I., Khananashvili, L. M., and

Sipyagina, M. A.

TITLE:

On the condensation of α , ω -dihydroxymethylsiloxanes with 1, 3-diaceto-1, 3-dimethyl-1, 3-diphenyldisiloxane

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk.

no. 4, 1963, 651-654

TEXT: The synthesis of linear polymers by the reaction of polycondensation of oligomers of the dimethylsiloxane type with the hydroxyl groups at the end of chains with oligomers containing the acetate groups, for example, 1, 3-diacetoxy-1, 3-dimethyl-1, 3-diphenyldisiloxane was of interest to the authors. The reaction of alpha, omega-dichloromethylphenylsiloxanes with acetic anhydride was studied and several alpha, omega-diacetoxymethylphenylsiloxanes were synthesized. The condensation between alpha, omega-dihydroxyoctamethyltetrasiloxane and 1,3-diacetoxy-1, 3-diphenyldisiloxane was conducted. The polymer formed has a higher vitrification temperature (-550) than the polymer based on

Card 1/2

CIA-RDP86-00513R000721720018-3" **APPROVED FOR RELEASE: 09/17/2001**

On the condensation of

heptamethylphenylcyclotetrasiloxane (-700). There are 2 figures. The 2 English-language references read as follows: W. H. Davdt, J. F. Hyde, J. Amer Chem. Soc., 74, 386 (1952); P. George, L. Sommer, F. Whitmore, J. Amer. Chem. Soc., 75, 1585 (1953).

ASSOCIATION: Institut torkey khimicheskoy tekhnologii im. M. V. Lomonosova (Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUEMITTED: June 15, 1962

ACCESSION NR: AP3000133

8/0062/63/000/005/0948/0950

AUTHOR: Andrianov, K. A.; Khayduk, Ionel; Khananashvili, L. M.; Lotarev, M. B.

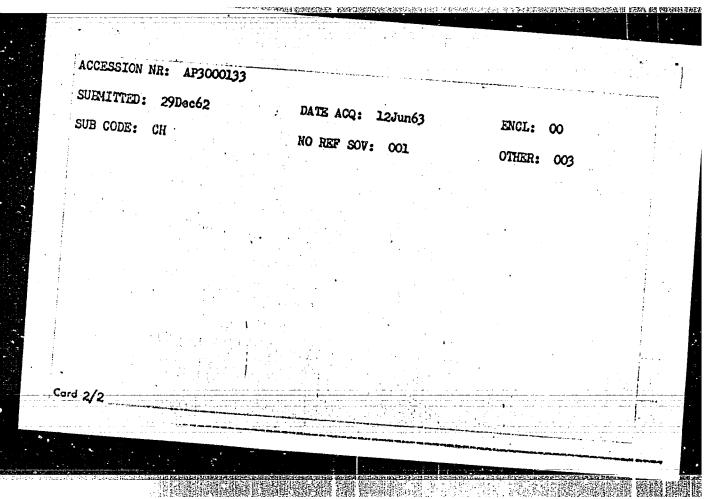
TITIE: Synthesis of vinyl derivatives of cyclosilezenes

SOURCE: AN SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 5, 1963, 948-950

TOPIC TAGS: silazanes, silanes, vinyl derivatives, commonolysis

ABSTRACT: Trimethyltrivinylcyclotrisilazane and tetramethyltetravinylcyclotetrasilazane were obtained by reacting methylvinyldichlorosilane with gaseous ammonia in benzene. Coammonolysis of methylvinyldichlorosilane with dimethyldichlorosilane yielded two six-membered cyclic derivatives and one eight-membered cyclic derivative. Coammonolysis of methylvinyldichlorosilane with diethyldichlorosilane resulted in the formation of six-membered cyclic derivatives only. The seven synthesized compounds were identified by means of elemental analysis and through determination of molecular weights, molar refractive indices and infrared spectra. Physical constants of the seven compounds are summarized in a table. Orig. art. has: 5 formulas and 1 table.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology)
Card 1/2



L 11062-63 EPF(c)/FWP(j)/EWP(q)/FWT(m)/BDS-AFFTC/ASD-Pr-I;/Pc-I;-PM/MAY/ACCESSION NR: AP3001449 WW/JD/JG S/0074/63/032/005/0539/0589

AUTHOR: Andrianov, K. A.; Khayduk, I.; Khananashvili, L. M.

TITLE: Inorganic cyclic silicon compounds and their organic derivatives

SOURCE: Uspekhi khimii, v. 32, no. 5, 1963, 539-589

TOPIC TAGS: heterocyclic, functional silica group reaction, homofunctional condensation reaction, heterofunctional condensation reaction, reaction of siloxane bond rupture, organic radical, separation reaction, the silica atom; mixed cyclic silicon compounds, polycylic compounds, polymers.

ABSTRACT: This article summarizes the works dedicated to the chemistry of inorganic cyclic silicon compounds/including the works of 1962. For the convenience of study, these compounds were broken into homocyclic compounds composed
of silica atoms only of the formula - [R sub 2 Si] sub n. This group includes
cyclotetrasilanes and cyclohexasilanes. Cyclohexasilanes are more stable than
cyclic compounds have heteroatoms of 0, N, S, and Se in place of silica atoms.
Mixed cycles are obtained when a portion of the conjugated silica atoms are replaced with P, B, or others. Cycles containing conjugated atoms of 0, N, and S
Cord 1/H.

L 11062-63 ACCESSION NR: AP3001449

tivity. Cyclosiloxanes have a general rormula [R sub 2 Si0] sub n and contain from 3 to 12 SiO groups per cycle. After the formation of the cycle, the free valences of silica can be replaced with inorganic groups (R = Cl, Be, OH or -- 0 sup (-)), or organic groups (R = aryl, alkyl), or other functional groups. The inorganic cyclosilicates are found in the anionic forms of S1 sub 3 0 sub 9 sup 6-, SiO sub 12 sup 8-, and Si sub 6 0 sub 18 sup 12-. The organic cyclosilanes containing two organic radicals attached directly to the silica atom can be prepared by the following reactions: functional silica group reaction with substances capable of giving off oxygen (water, alcohols, ketones, ethers, metal oxides, etc.). The most important method in this reaction is the hydrolysis of functional silica groups. Homofunctional condensation reaction is promoted by heating, pressure, and catalytic reaction of acids or bases. Heterofunctional condensation reaction is promoted by heating in the presence of Friedel-Crafts catalyst reaction. The reaction of siloxane bond rupture and the reaction of separation of the organic radical from the silica atom are also discussed. A great number of reforences are included covering the structure and physical and chemical properties of organocyclosiloxanes. A detailed illustration of the following reactions are also presented: rupture of cycles, formation of oligomers, telemers, regrouping, formation of polymers, electrophylic reagents, co-polymerization of cycles, and chemical transformation in the organic radical. Cyclosilaxanes containing SiN bonds in the cycle are presently found in 2, 3, or 4 SiN groups. Organocyclic silazanes are stable at high Card 2/4

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ACCESSION NR: AP3001449

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temperatures; however, they hydrolize in water. Cyclosilthianes contain 2, 3, or 4 SiS groups and have 4-, 6-, and 8- group cycles. Cyclosilselanes in its cycles contained silica and selenium. At the present only two products are known, a dimer and a trimer with a cyclic structure. Both compounds are unstable. The mixed cyclic silicon compounds are transitional compounds between brganocyclicsiloxanes and other inorganic cycles. The oxygen in the cycle can be partly substituted by N, S, and from cyclosilazoxanes and cyclosilthioxanes. Silica can be partly substituted by B, Al, P, Ti, Ar, and Sb forming mixed organocycloelemental-siloxanes. All these reactions are illustrated in the original article and their physical and chemical properties explained. Polycyclic compounds of silica are also classified into homo- and hetero- compounds. Thus the cyclic silica structures of inorganic elements present a number of specific properties sharply distinguished from the cyclic organic compounds. The high reactivity of the inorganic cyclic compounds containing silica in relation to nucleophylic and electrophylic reagents is typical for all cyclic compounds. This distinguishes them from the organic carbocyclic compounds and opens a great possibility for their utilization in various syntheses of polymers. Orig. art. has: O figures, O tables and O graphs.

ASSOCIATION: none

Card 3/4 .

I. 10663-63 EFF(c)/EMF(j)/EMT(m)/BDS--ASG--Pr-4/Pc-4--RM/AW/MAY 69 S/079/63/033/004/008/010 68

AUTHOR: Andrianov, K.A., Kurakov, G.A., Khananashvili, L.M.,

Lomonosova, T.A.

TITLE: Reaction of reamination of bis(diethylamino)-

derivative silanes and octamethylcyclotetrasilazane

with aromatic amines

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 4, 1963,

1294-1299

TEXT: The compounds of bis(diethylamino)methylsilane, bis(diethylamino)ethylsilane, diethylaminophenylaminoethylsilane, and bis(phenylamino)ethylsilane, of which the first two have not been described previously in published literature, are synthesized. These compounds are liquids which evaporate in a vacuum without decomposing and are easily hydrolyzed in air. They react with benzidine to form polymers which are solids at room temperature.

Card 1/2

"APPROVED FOR RELEASE: 09/17/2001

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s/079/63/033/004/008/010

Reaction of reamination of ...

The properties of these polymers are studied and are given in a table. It is shown that the reamination of bis(diethylamino)ethylsilane by aniline takes place without the displacement of a hydrogen atom from the silicon to the amino group.

Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova (Moscow Institute of ASSOCIATION:

Fine Chemical Technology imeni M.V. Lomonoscv)

SUBMITTED:

May 29, 1962

ANDRIANOV, K.A.; KURAKOV, G.A.; KHANANASHVILI, L.M.

Interaction of glycide ethers of phenols with organochlorosilanes. Zhur. ob. khim. 33 no.8:2634-2638 Ag '63. (MIRA 16:11)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii.

L 17156-63 EMP(1)/EFF(c)/EMT(m)/BDS ASD Pc-4/Pr-4 RM/MM/MAY 67
ACCESSION NR: AP3006831 S/0079/63/033/008/2790/2791

AUTHOR: Andrianov, K. A.; Khayduk, Ionel; Khananashvili, L. M.

TITLE: New inorganic heterocyclic compound trisildiazoxane

SOURCE: Zhurnal obshchey khimii, v. 33, no. 8, 1963, 2790-2791

TOPIC TAGS: heterocyclic compounds, inorganic heterocyclic compounds, trisildiazoxanes, 3,5-diaza-l-oxacyclohexasilane, trisildiazoxane synthesis, synthesis, ammonolysis, dichlorotetra-methylsiloxane, dichlorodimethylsilane, 2,4,6-hexamethyl-3,5-diaza-l-oxacyclohexasilane, 2,4,6-hexamethyl-3,5-diaza-l-oxacyclohexasilane property, property

ABSTRACT: 2,4,6-Hexamethyl-3,5-diaza-1-oxacyclohexasilane (I), the first representative of a new class of inorganic heterocyclic compounds—trisildiazoxanes [sic]—has been synthesized by ammonolysis of dichlorotetramethylsiloxane (II) with dichlorodimethylsilane (III) in liquid ammonia. An equimolar mixture of II and III dissolved in toluene was added dropwise to liquid ammonia. After

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L 17156-63

ACCESSION NR: AP3006831

completion of the reaction excess ammonia and toluene were removed by heating and distillation, respectively. Compound I precipitated from the reaction mixture as needle-shaped colorless crystals which, after recrystallization from petroleum either, had a melting point of 46—47C. The yield of I was 28.9%. Other 3,5-diaza-l-oxacyclo-hexasilane derivatives are being prepared. Orig. art. has: 1 formula.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova (Moscow Institute of Fine Chemical Technology)

SUBMITTED: 15Mar63

DATE ACQ: 30Sep63

ENCL: 00

SUB CODE: CH

NO REF SOV: 001

OTHER: 001

Card 2/2

L 12709.63 EWP(j)/EPF(c)/EWT(m)/EDS ASD/ESD-3 Pc-4/Pr-4 RM/WW/MAY ACCESSION NR: AP3000299 8/0020/63/150/001/0093/0095

AUTHOR: Andrianov, K. A. (Corresponding Member, AN SSSR); Khayduk, Ionel; 67

TETLE: Structure of unsaturated derivatives of cyclotrisilazane

SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 93-95

TOPIC TAGE: silanes, silazanes, commonolysis, conjugation, ammonolysis

ABSTRACT: Unsaturated derivatives of trisilazane heterocycle were prepared for the first time through ammonolysis of methylvinyldichlorosilane or commonolysis of methylvinyldichlorosilane with dimethyldichlorosilane in benzene. Trimethyl-tri-vinylcyclotrisilazane and tetramethyltetravinylcyclotetrasilazane were isolated upon ammonolysis of methylvinyldichlorosilane. Commonolysis of dimethyldichlorosilane with methylvinyldichlorosilane yielded pantamethylvinylcyclotrisilazane and tetramethyldivinylcyclotrisilazane. Physical properties of the four compounds are summarized in a table. Elemental analysis and molecular weight determinations confirmed the composition of the synthesized compounds. Infrared and ultraviolet spectra provided additional information about the structure of unsaturated derivatives of cyclosilazane. Author concluded on the basis of ultraviolet spectra that there is no conjugation of the vinyl groups through the inorganic heterocycle Si Cord 1/2

L 12709-63

ACCESSION NR: AP3000299

2

sub 3 N sub 3 but the conjugation is outside the nucleus and limited to interaction between the silicon atom and the vinyl group. Orig. art. has: 2 figures, 1 formula and 3 tables.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology)

SUBMITTED: 06Feb63

DATE ACQ: 10Jun63

ENCL: 00

SUB CODE: CH

NO REF SOV: 003

OTHER: 002

Card 2/2

ANDRIANOV, K.A.; MARFENKOVA, G.P.; KHANANASHVILI, L.M.; SHAPATIN, A.S.

Synthesis of organophosphinoxyaluminoxanodimethylsiloxane elastomers. Vysokom. soed. 5 no.10:1552-1557 0 63.

(MIRA 17:1)

1. Institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

ANDRIANOV, K.A.; KHAYDUK, Ionel; KHANANASHVILI, L.M.

New eight-membered cyclosilazoxanes. Izv. AN SSSR. Ser.khim. no.9:1701-1702 S '63. (MIRA 16:9)

1. Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova. (Silicon organic compounds)

S/0191/64/000/003/0020/0022

AUTHOR: Andrianov, K. A.; Khananashvili, L. M.; Varlamov, A. V.; Tikhonov, V. S.

TITLE: Synthesis of borosiloxane oligomers and their stability to hydrolysis

SOURCE: Plasticheskiye massy*, no. 3, 1964, 20-22

TOPIC TAGS: borosiloxane, oligomer, borosiloxane oligomer, hydrolytic stability, hydrolysis, phenylaminomethyl group

ABSTRACT: Borosiloxane oligomers containing phenylaminomethyl group at the Si atom were synthesized from suitable proportions of triacetoxyboron and methylphenylaminomethyldiethoxysilane: CH.

Card 1/2

The oligomers in which the number of phenylaminomethyl groups is equal to the number of B atoms in the molecule (compound III) or are greater than the number of B atoms (I and II) are stable to hydrolysis; the oligomer in which the number of B atoms exceeds the number of phenylaminomethyl groups (IV) is hydrolytically unstable. "Han En-tse took part in the experimental work". Orig. art. has: 1 table, 1 figure and 4 formulae.

SUBMITTED: 00 SUB CODE: CH

DATE ACQ: 27Mar64 NO REF SOV: 002

ENCL: 00 OTHER: 001

Card 2/2

CONTRACTOR OF THE CONTRACTOR O ACCESSION NR: AP4043319 5/0191/64/000/008/0013/0016 AUTHOR: Andrianov, K. A.; Khananashvili, L. H.; Kochetkov, A. S. TITLE: Synthesis and condensation of organo(hydroxyalkoxy)silanes SOURCE: Plasticheskiye massy*, no. 8, 1964, 13-16 TOPIC TAGS: silane, organotris(hydroxyalkoxy)silane, transesterifi-ABSTRACT: A study has been made of the synthesis, properties, and polycondensation of the following organotris(hydroxyalkoxy)silanes: methyl-, ethyl-, or phenyl-tris(2-hydroxyethoxy)silane, or ethylor phenyl-tris(4-hydroxybutoxy) silane. These silanes were prepared by transesterification of methyl-, ethyl-, or phenyl- tris(ethoxy)silane with the appropriate glycol. The organotris(hydroxyalkoxy)silanes can be polycondensed alone to the polymers or with dimethyl terephthalate or tolylene dissocyanate to the copolymers. The preparative conditions, chemical structure, and some physical, thermomechanical, and electrical properties of the polymers and copolymers are discussed. For example, the polymer produced from Card | 1/2 se la consecta de la companya de la consecta de la

phenyltris(4-hydroxy below 300C. The pol produce various artiand 3 tables.	ymers cles.	and copolym Orig: art.	ers can l	be cast figures	imperature in molds , 4 formu	to las,	
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ANDRIANOV, K.A.; KURAKOV, G.A.; KHANANASHVILI, L.M.

Reartion of 1,3-dioxolane with organochlorosilanes. Izv. AN SSSR Ser. khim. no.12:2243-2245 D *64 (MIRA 18:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

8/0079/64/034/003/0912/0914

AUTHOR: Andrianov, K. A.; Khayduk, Ionel; Khananashvili, L. M.

TITLE: The formation of polycyclosilasanes during ammonolysis of dimethyl-

SOURCE: Zhurnal obshchey khimii, v. 34, no. 3, 1964, 912-914

TOPIC TAGS: polycyclosilazane, aumonolysis, dimethyldichlorosilane, dodecane methylbicyclo 3comma4 hexacyclpentazane, diaminosilazane

ABSTRACT: Dodecane methylbicyclo (3.4) hexacylpentazane and the polymer (CII₂)₂Si-N-Si(CH₃)₂-NII

HN SI(CH₃)₂ SI(CH₃)₂ (CH₃)₂ (CH₃)₂

together with hexamethylcyclotrisilazane and octamethylcyclotetrasilazane were obtained while carrying out the reaction of dimethyldichlorosilane with ammonia in benzene solution at a temperature not exceeding 30 C. A study of this reaction indicated that the composition of ammonolysis products depends on the operating

Card 1/4

conditions of the synthesis. If the reaction is carried out with subsequent heating of products and no separation of ammonium chloride, a bicyclic compound with low yield forms. If the product of ammonium chloride, the yield of the bicyclic compound and the polymer increases significantly. It is interesting to note that ammonia separation is observed in the process of heating the product of the dimethyldichlorosilane ammonolysis the reaction. While the gaseous ammonia takes effect on the dimethyldichlorosilane, the reaction occurs not only with monocycliccompounds forming, but also with linear diaminosilazanes H2N-(R2SINH)_n - R2Si - NH2. The latter are much more fact that during heating of products of ammonolysis, ammonia is always separated. This can develop only as a result of condensation of the amino groups in the

Card 2/4

HN-SIR -NH

Card 3/4

sin.

ACCESSION NR: AP4022962 Consequently, the formation of a bicyclic compound and of polymers obtained during the reaction of dimethyldichlorosilane with ammonia may be explained by the following reactions: H2SI-NH IIN SIRs + H2N-[RSIP I]s-RSINHs -NH RaSI-NII Rasi-N-sira-NH sin, Rasi-nii Rasi-nh ŃН, IIN-SIR_NII R.SI SIR2+H2N-R2SINHSIR2-NH2 sin. HN-SIR_NH HN-SIR-N.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721720018-3"

-NII.

$$\begin{array}{c} R_{2} \\ HN \\ SI \\ NH \\ SIR_{2} \\ + H_{2}N - SIR_{2} - NH_{2} \\ - NH_{2} \\ - NH_{2} \\ - NH_{3} \\ - NH_{3} \\ - NH_{4} \\ - NH_{4} \\ - NH_{5} \\ - NH_{5$$

The composition of the polymer being formed does not correspond to the product of simple ammonolysis [R2SiNH] as might be expected. Its composition $\left[R_8Si_4N_3H\right]_x$ indicates that it is a product of conversion which occurs in the second stage of the reaction. Orig. art. has: 00

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M. V. Lomonosova (Moscow Institute of Fine Chemical Technology)

SUB CODE: GC

DATE ACQ: 15Apr64

ENCL: 00

Card 4/4

NO REF SOV: 001

OTHER: 002

8/0079/64/034/005/1684/1685

AUTHOR: Andrianov, K. A.; Kurakov, G. A.; Kopy*lov, V. M.; Khananashvili, L. H.

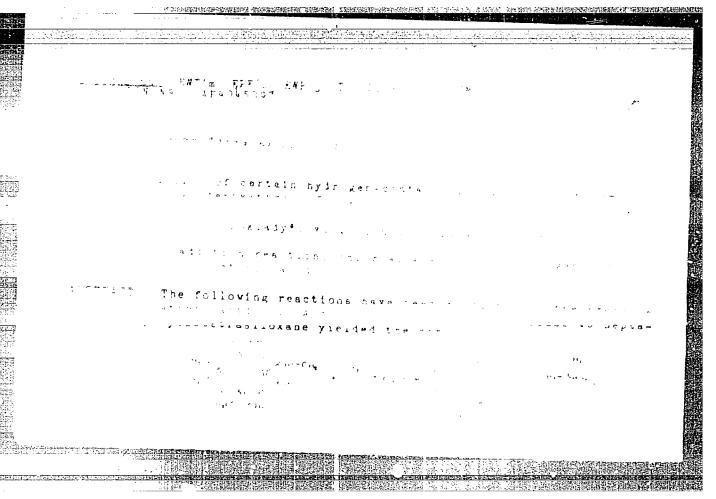
TITLE: New synthesis method for methylbromosilanes and methylbromochlorosilanes

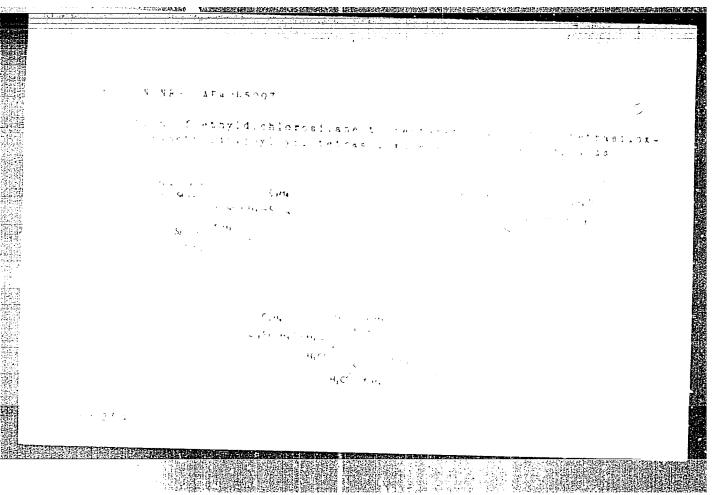
SOURCE: Zhurnal obshchey khimii, v. 34, no. 5, 1964, 1684-1685

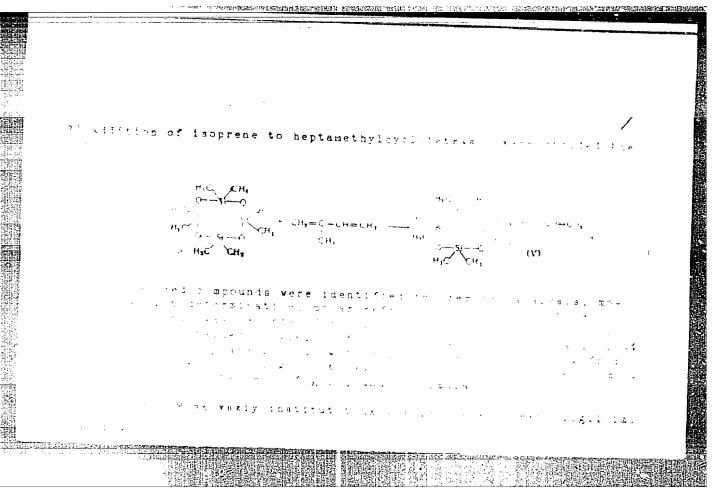
TOPIC TAGS: methylbromosilane, methylbromochlorosilane, trimethylbromosilane, dimethylchlorobromosilane

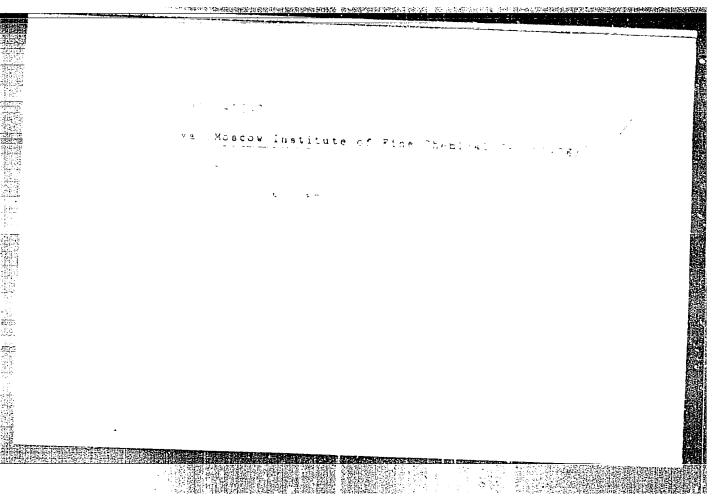
ABSTRACT: Trimethylbromosilane and dimethylchlorobromosilane have been prepared by treatment of trimethylchlorosilane or dimethyldichlorosilane with hydrogen bromide in the presence of anhydrous FeCl₃ or iron filings. Either HBr gas or HBr generated by the reaction of bromine with naphthalene or tetralene can be used. Boiling points of the products are 79-80C and 93-94C, respectively. This work was done at the Moscow Institute of Fine Chemical Technology.

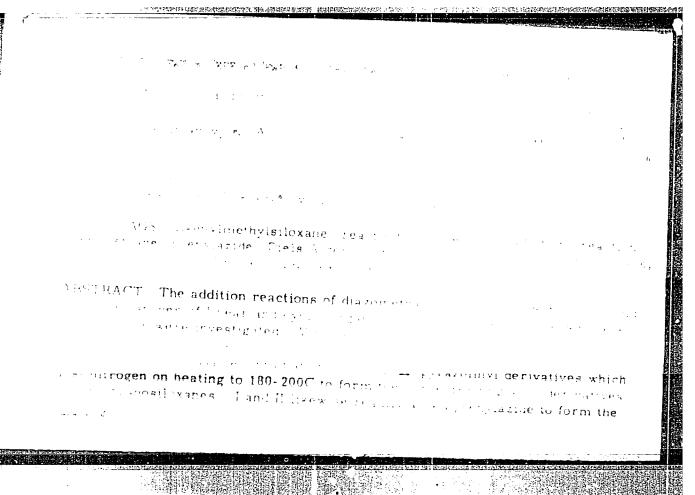
Card 1/2











L 24927-65

ACCESSION NR: AP4047325

N-phenylaziridinyl derivatives, probably via the triazoline intermediate. Compounds with the alkenyl group in the beta-position with respect to the silicon alorn e g allvlheptamethylcyclotetrasiloxane to a solicit so de firther confirming that is no response contrat is a time the vinyl sipha to the Si atom is more reactive than a fire over a section. If reacted we grade and molar refractions were determined by IR sometra were obtained r>10 the compounds, the NMR spectrum of 3-14 lpha , year survivienentamethyltm-The authors similarly War. Was Autsey for intainor 'Rabsorption spectra," Orig. art. has 4 equations and 9 formulae

ASSOCIATION: Moskovskiy institut tonkoy khimicheekov tek mologu im. M. V. Le monogova (Moscow Institute of Fine Chemica, Crimes

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ENCL: 10

STR CODE: GC, OC

NO REF SOV 001

THER 901

ANCHUTANOV, K.A.; KHAYDUK, Y.; KHAMANASHVIJI, L.M.

Ease of the elements of forming polymers with inorganic chains of molecules. Usp. khim. 34 no.1827-43 Jn 165.

1. Moskovskiy institut tonkey khimicheskoy tekhnologii imeni Lomenosova.

L 29105-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 Pt

ACCESSION NR: AP5003962

5/2079/65/235/201/0123/0106

ALTHORS: Andrianov, K. A.; Siderov, V. 1.; Ananaras: ..., L. M.; Nikitina, N. N.

TITLE: Synthesis of organic cyclosiloxanes containing unsaturated groups at the silicon atom

SOURCE: Zhurnal obshchey khimii, 7. 35, no. 1, 1965, 103-106

23 22 B

TOPIC TAUS: silicon, siloxane, cyclotetrasiloxane, hydrogen, vinyl, mechanical

ABSTRACT: Compounds containing various numbers of allyl groups at the silicon atom in eight-member and six-member siloxane rings and cyclotetrasiloxane containing hydrogen and vinyl groups at various silicon atoms were synthesized. Simultaneous of nythologists of methallyl dichlorsiloxane and limethyl displaysilane in etheric yields six-member and eight-member cyclosil xanes as shown by

Card 1/3